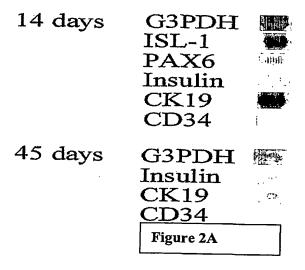


Figure 1. Morphology of HSCs and MSCs in the culture.

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G3PDH
PDX-1
ISL-1
PAX4
Glut2
Glucagon
Insulin
CD34

Figure 2B

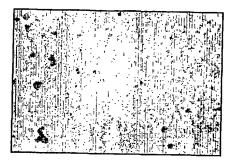


Figure 3A (1 week)
Differentiation into red blood bursts.

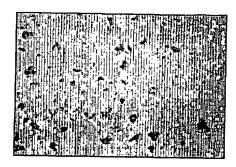


Figure 3B (2 weeks)



Figure 4. Differentiation into Fat cells.

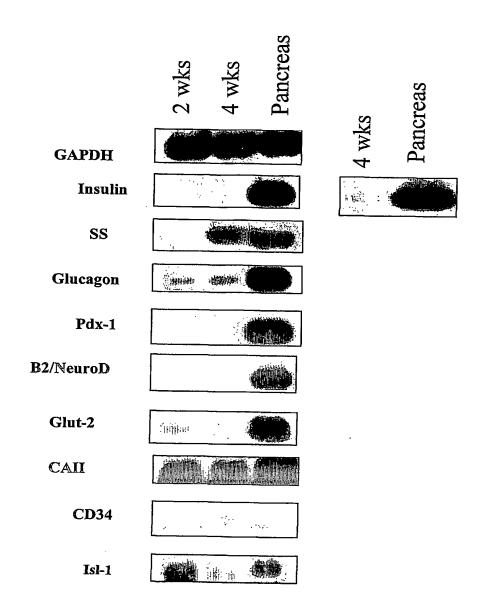
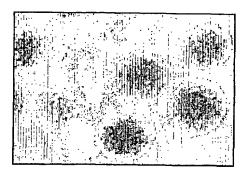
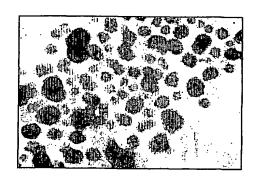
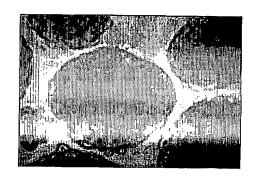


Figure 5. Expression of pancreas/islet development related genes.







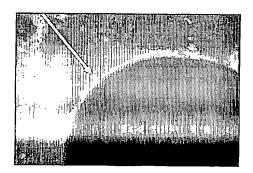


Figure 6. Appearance of clustered MSCs.

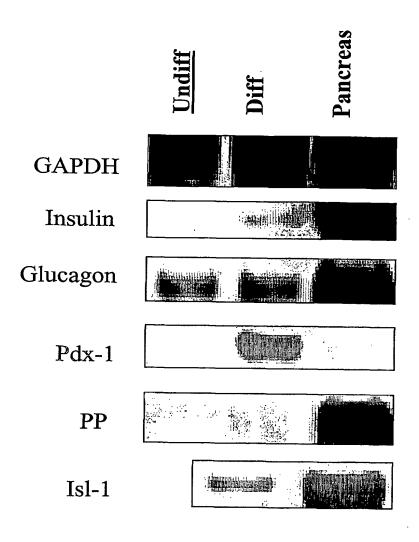


Figure 7. Insulin expression in clusters.

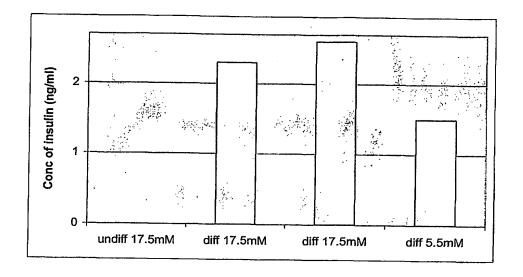


Figure 8. In vitro insulin secretion by differentiated clusters.

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